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› Shnile Carburetor Instruction Manual for 5.5HP 6.5HP 168FA 168FB Engines and Generators (Models: GX160, EB3000C, EU3000i, EG1400X, EG2200X, WMP20X, WB30X, WP30X)

## Shnile 168FA, 168FB, GX160, EB3000C, EU3000i, EG1400X, EG2200X, WMP20X, WB30X, WP30X

# Shnile Carburetor Instruction Manual

For 5.5HP 6.5HP 168FA 168FB Engines and Generators

## 1. INTRODUCTION

This manual provides essential information for the installation, operation, and maintenance of your Shnile carburetor. Designed for various 5.5HP and 6.5HP engines and generators, this carburetor is a replacement component intended to restore optimal fuel delivery and engine performance. Please read this manual thoroughly before proceeding with installation or use.

## 2. COMPATIBILITY

This Shnile carburetor is designed as a replacement part for a wide range of engines and equipment. It is compatible with:

- **Engines:** GX120, GX140, GX160, GX168, GX200 (5.5HP, 6.5HP), 168FA, 168FB.
- **Generators:** EB3000C, EU3000i, EG1400X, EG2200X, WMP20X, WB30X, WP30X.
- **Replaces OEM Part Numbers:** 16100-Z0T-911, 16100-ZE1-825, 16100-ZB2-815, 16100-ZB2-812, 16100-ZH8-W61, 16100-ZH7-W51.
- **Briggs & Stratton Part Numbers:** 083152-0142-B1, 083152-0151-B1 (Part # 797283).
- **Pressure Washers:** Dewalt DPD3100, Aldi Kingcraft 2400PSI, Titan TPW3000 ES, TPW2200.

### **Important Note on Compatibility:**

While this carburetor is designed for broad compatibility, it is crucial to verify proper fitment for your specific equipment. Please carefully compare the provided product images, your existing carburetor's model, and OEM part numbers before making a purchase. If you are uncertain, it is recommended to contact the manufacturer with photos and model numbers of your old parts for confirmation.

## 3. PACKAGE CONTENTS

Upon opening your package, you should find the following components:

- 1 x Carburetor assembly
- 3 x Gaskets (for mounting)
- 1 x Fuel line
- 1 x Fuel filter
- 1 x Intake manifold / Governor linkage component



*Image 3.1: Overview of the Shnile carburetor kit, including the main carburetor unit, three gaskets, a fuel line, a fuel filter, and an intake manifold component.*

## 4. SETUP AND INSTALLATION

**Safety First:** Before beginning any installation, ensure the engine is turned off, cooled down, and the spark plug wire is disconnected to prevent accidental starting. Wear appropriate personal protective equipment, such as gloves and eye protection.

1. **Drain Fuel:** If necessary, drain the fuel tank to prevent spills during carburetor removal.
2. **Remove Air Filter Assembly:** Carefully detach the air filter housing and any associated components to gain access to the carburetor.
3. **Disconnect Linkages and Fuel Line:** Note the routing of the throttle and choke linkages, and the fuel line.

Disconnect them from the old carburetor. It is often helpful to take photos before disconnecting.

4. **Remove Old Carburetor:** Unbolt the old carburetor from the engine. Pay attention to the gaskets between the carburetor and the engine/intake manifold.
5. **Install New Gaskets:** Ensure all old gasket material is removed from the mounting surfaces. Place the new gaskets provided in the kit in their correct positions.
6. **Mount New Carburetor:** Carefully position the new Shnile carburetor and secure it with the appropriate bolts. Do not overtighten.
7. **Connect Fuel Line and Filter:** Install the new fuel filter in the fuel line, ensuring the flow direction is correct (if indicated). Connect the fuel line to the carburetor's fuel inlet.
8. **Reconnect Linkages:** Reattach the throttle and choke linkages to the new carburetor, ensuring they operate smoothly without binding. Use the new intake manifold/governor linkage component if it matches your original setup.
9. **Reassemble Air Filter:** Reinstall the air filter assembly and any other components removed earlier.
10. **Refill Fuel and Test:** Refill the fuel tank, reconnect the spark plug wire, and attempt to start the engine. Check for fuel leaks and proper engine operation.



*Image 4.1: Detailed view of the Shnile carburetor, showing the fuel bowl and various adjustment points.*



*Image 4.2: The three gaskets provided for proper sealing during carburetor installation.*



Image 4.3: The intake manifold or governor linkage component, used for connecting the carburetor to the engine's control system.

## 5. OPERATING PRINCIPLES

A carburetor's primary function is to mix air and fuel in the correct ratio for combustion in an internal combustion engine. It atomizes fuel into a fine mist and mixes it with air, which is then drawn into the engine cylinders. The throttle valve controls the amount of air-fuel mixture entering the engine, thereby regulating engine speed and power output. The choke valve, typically used during cold starts, restricts airflow to create a richer fuel mixture, aiding in ignition.

## 6. MAINTENANCE

Regular maintenance of your carburetor and fuel system is crucial for optimal engine performance and longevity.

- **Fuel Quality:** Always use fresh, clean gasoline. Stale fuel or fuel containing ethanol can cause deposits and corrosion within the carburetor. Consider using a fuel stabilizer if the equipment will be stored for extended periods.
- **Fuel Filter:** Regularly inspect and replace the fuel filter (included in this kit) to prevent contaminants from reaching the carburetor. A clogged fuel filter can restrict fuel flow and cause performance issues.
- **Air Filter:** Ensure the engine's air filter is clean and properly installed. A dirty air filter can restrict airflow, leading to a rich fuel mixture and poor engine performance.
- **Carburetor Cleaning:** If performance issues arise due to fuel deposits, the carburetor may need to be disassembled and cleaned with a specialized carburetor cleaner. This should be performed by individuals with appropriate mechanical knowledge.
- **Storage:** Before long-term storage, it is recommended to run the engine until it runs out of fuel, or drain the fuel system, to prevent fuel degradation and carburetor clogging.

## 7. TROUBLESHOOTING

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If you encounter issues after installing the new carburetor, consider the following common troubleshooting steps:

- **Engine Not Starting:**

- Check for fuel in the tank and ensure the fuel valve is open.
- Verify the spark plug is clean and firing.
- Ensure the choke is set correctly for starting (usually closed for cold starts).
- Check for proper fuel flow to the carburetor (e.g., clogged fuel filter or line).
- Confirm all linkages (throttle, choke) are connected and operating freely.

- **Rough Idle or Stalling:**

- Inspect for air leaks around the carburetor gaskets.
- Ensure the idle speed adjustment screw is set correctly (refer to your engine's specific manual).
- Check for proper fuel quality.

- **Lack of Power or Surging:**

- Verify the air filter is clean.
- Check for proper fuel flow.
- Ensure the throttle linkage is fully opening the throttle plate.

- **Fuel Leaks:**

- Tighten all fuel line connections.
- Inspect carburetor bowl gasket and drain screw for proper sealing.
- Ensure mounting gaskets are correctly installed and not damaged.

If these steps do not resolve the issue, it is advisable to consult a qualified service technician or refer to your engine's specific service manual.

## 8. SPECIFICATIONS

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- **Brand:** Shnile
- **Manufacturer:** SHNILE
- **Fuel Type:** Gasoline
- **Compatible Engine HP:** 5.5HP, 6.5HP

## 9. SUPPORT AND WARRANTY

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For technical assistance, specific installation queries, or warranty information, please contact Shnile customer support through the retailer where the product was purchased. Keep your purchase receipt as proof of purchase.

